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Electronic Patent Application Submission  
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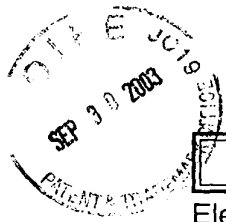
EFS ID: 48498  
Application ID: 09841284  
Title of Invention: IN SITU THERMAL PROCESSING  
OF A COAL FORMATION TO  
INCREASE  
PERMEABILITY/POROSITY OF THE  
FORMATION  
First Named Inventor: Harold Vinegar  
Domestic/Foreign Application: Domestic Application  
Filing Date: 2001-04-24  
Effective Receipt Date: 2003-09-30  
Submission Type: Information Disclosure  
Statement  
Filing Type:  
Confirmation number: 4716  
Attorney Docket Number: 5659-06000



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Total Fees Authorized:

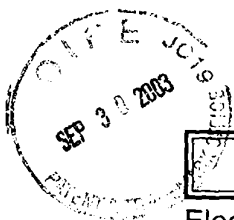
Digital Certificate Holder: cn=Eric B. Meyertons,ou=Registered Attorneys,ou=Patent and Trademark  
Office,ou=Department of Commerce,o=U.S. Government,c=US  
Certificate Message Digest: fb54105eed6758b31f9aee55a4380dfd8869ed



TRANSMITTAL

Electronic Version v1.1  
Stylesheet Version v1.1.0

| Title of<br>Invention  | IN SITU THERMAL PROCESSING OF A COAL FORMATION TO<br>INCREASE PERMEABILITY/POROSITY OF THE FORMATION |  |   |                           |  |   |  |                   |                        |        |                      |      |                         |  |            |  |
|--|--|--|---|---------------------------|--|---|--|-------------------|------------------------|--------|----------------------|------|-------------------------|--|------------|--|
| <table><tr><td>Application Number:</td><td>09/841284</td><td rowspan="4"></td><td rowspan="4"><b>RECEIVED</b><br/>OCT 02 2003<br/><b>GROUP 3600</b></td></tr><tr><td>Date:</td><td>2001-04-24</td></tr><tr><td>First Named Applicant:</td><td>Harold</td></tr><tr><td>Confirmation Number:</td><td>4716</td></tr><tr><td colspan="2">Attorney Docket Number:</td><td colspan="2">5659-06000</td></tr></table>  |  |  | Application Number:                                 | 09/841284                 |  | <b>RECEIVED</b><br>OCT 02 2003<br><b>GROUP 3600</b> | Date:  | 2001-04-24        | First Named Applicant: | Harold | Confirmation Number: | 4716 | Attorney Docket Number: |  | 5659-06000 |  |
| Application Number:  | 09/841284  |  | <b>RECEIVED</b><br>OCT 02 2003<br><b>GROUP 3600</b> |                           |  |   |  |                   |                        |        |                      |      |                         |  |            |  |
| Date:  | 2001-04-24   |  |   |                           |  |   |  |                   |                        |        |                      |      |                         |  |            |  |
| First Named Applicant:   | Harold   |  |   |                           |  |   |  |                   |                        |        |                      |      |                         |  |            |  |
| Confirmation Number:   | 4716   |  |   |                           |  |   |  |                   |                        |        |                      |      |                         |  |            |  |
| Attorney Docket Number:  |  | 5659-06000   |   |                           |  |   |  |                   |                        |        |                      |      |                         |  |            |  |
| <p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p> |  |  |   |                           |  |   |  |                   |                        |        |                      |      |                         |  |            |  |
| <table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Eric B. Meyertons<br/>Registered Number: 34,786</td><td>Eric B. Meyertons</td><td>Attorney</td></tr></tbody></table>   |  |  |   | Submitted by:             | Elec. Sign.  | Sign. Capacity                                      | Eric B. Meyertons<br>Registered Number: 34,786 | Eric B. Meyertons | Attorney               |        |                      |      |                         |  |            |  |
| Submitted by:  | Elec. Sign.  | Sign. Capacity   |   |                           |  |   |  |                   |                        |        |                      |      |                         |  |            |  |
| Eric B. Meyertons<br>Registered Number: 34,786   | Eric B. Meyertons  | Attorney   |   |                           |  |   |  |                   |                        |        |                      |      |                         |  |            |  |
| <table><tr><td>Documents being submitted</td><td>Files</td></tr><tr><td>us-ids</td><td>M1_Q5-usidst.xml</td></tr><tr><td></td><td>us-ids.dtd</td></tr><tr><td></td><td>us-ids.xsl</td></tr></table>  |  |  |   | Documents being submitted | Files  | us-ids  | M1_Q5-usidst.xml                               |                   | us-ids.dtd             |        | us-ids.xsl           |      |                         |  |            |  |
| Documents being submitted  | Files  |  |   |                           |  |   |  |                   |                        |        |                      |      |                         |  |            |  |
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| Comments   |  |  |   |                           |  |   |  |                   |                        |        |                      |      |                         |  |            |  |



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of  
Invention

IN SITU THERMAL PROCESSING OF A COAL  
FORMATION TO INCREASE PERMEABILITY/POROSITY  
OF THE FORMATION

Application Number: 09/841284



Confirmation Number: 4716

First Named Applicant: Harold Vinegar

Attorney Docket Number: 5659-06000

Art Unit: 3672

Examiner: George A Suchfield

Search string: ( 4193451 or 4265307 or 4390067 or 4456065  
or 4457374 or 4479541 or 4498535 or 4598770  
or 4669542 or 4682652 or 4982786 or 5201219  
or 5339904 or 3349845 or 1646599 or 3952802  
or 4010800 or 3892270 or 3986556 or 4031956  
or 4140180 or 4412585 or 4501326 or 4524827  
or 4585066 or 4776638 or 4856587 or 5517593  
or 5099918 or 5751895 or 6015015 or 6112808  
or 3026940 or 3947683 or 3285335 or 3456721  
or 2857002 or 3477058 or 3580987 or 5126037  
or 3165154 or 4458757 or 4737267 or 4931171  
or 4384948 or 3593790 or 3244231 or 3223166  
or 3947656 ).pn.

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### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

| init | Cite.No. | Patent No. | Date       | Patentee        | Kind | Class | Subclass |
|------|----------|------------|------------|-----------------|------|-------|----------|
|      | 1        | 4193451    | 1980-03-18 | Dauphine        |      |       |          |
|      | 2        | 4265307    | 1981-05-05 | Elkins          |      |       |          |
|      | 3        | 4390067    | 1983-06-28 | Wilman          |      |       |          |
|      | 4        | 4456065    | 1984-06-26 | Heim et al.     |      |       |          |
|      | 5        | 4457374    | 1984-07-03 | Hoekstra et al. |      |       |          |
|      | 6        | 4479541    | 1984-10-30 | Wang            |      |       |          |
|      | 7        | 4498535    | 1985-02-12 | Bridges         |      |       |          |
|      | 8        | 4598770    | 1986-07-08 | Shu et al.      |      |       |          |

|  |    |         |            |                  |
|--|----|---------|------------|------------------|
|  | 9  | 4669542 | 1987-06-02 | Venkatesan       |
|  | 10 | 4682652 | 1987-07-28 | Huang et al.     |
|  | 11 | 4982786 | 1991-01-08 | Jennings, Jr.    |
|  | 12 | 5201219 | 1993-04-13 | Bandurski et al. |
|  | 13 | 5339904 | 1994-08-23 | Jennings, Jr.    |
|  | 14 | 3349845 | 1967-10-31 | Holbert et al.   |
|  | 15 | 1646599 | 1927-10-25 | Schaefer         |
|  | 16 | 3952802 | 1976-04-27 | Terry            |
|  | 17 | 4010800 | 1977-03-08 | Terry            |
|  | 18 | 3892270 | 1975-07-01 | Lindquist        |
|  | 19 | 3986556 | 1976-10-19 | Haynes           |
|  | 20 | 4031956 | 1977-06-28 | Terry            |
|  | 21 | 4140180 | 1979-02-20 | Bridges et al.   |
|  | 22 | 4412585 | 1983-11-01 | Bouck            |
|  | 23 | 4501326 | 1985-02-26 | Edmunds          |
|  | 24 | 4524827 | 1985-06-25 | Bridges et al.   |
|  | 25 | 4585066 | 1986-04-29 | Moore et al.     |
|  | 26 | 4776638 | 1988-10-11 | Hahn             |
|  | 27 | 4856587 | 1989-08-15 | Nielson          |
|  | 28 | 5517593 | 1996-05-14 | Nenniger et al.  |
|  | 29 | 5099918 | 1992-03-31 | Bridges et al.   |
|  | 30 | 5751895 | 1998-05-12 | Bridges          |
|  | 31 | 6015015 | 2000-01-18 | Luft et al.      |
|  | 32 | 6112808 | 2000-09-05 | Isted            |
|  | 33 | 3026940 | 1962-03-27 | Spitz            |
|  | 34 | 3947683 | 1976-03-30 | Schultz et al.   |
|  | 35 | 3285335 | 1966-11-15 | Reistle          |
|  | 36 | 3456721 | 1969-07-22 | Smith            |
|  | 37 | 2857002 | 1958-10-21 | Pevere et al.    |
|  | 38 | 3477058 | 1968-11-04 | Vedder et al.    |
|  | 39 | 3580987 | 1971-05-04 | Priaroggia       |
|  | 40 | 5126037 | 1992-06-09 | Showalter        |
|  | 41 | 3165154 | 1965-01-12 | Santourian       |
|  | 42 | 4458757 | 1984-07-10 | Bock et al.      |
|  | 43 | 4737267 | 1988-04-12 | Pao et al.       |
|  | 44 | 4931171 | 1990-06-05 | Piotter          |
|  |    |         |            |                  |

|  |    |         |            |               |
|--|----|---------|------------|---------------|
|  | 45 | 4384948 | 1983-05-24 | Barger        |
|  | 46 | 3593790 | 1971-07-20 | Herce         |
|  | 47 | 3244231 | 1966-04-05 | Grekel et al. |
|  | 48 | 3223166 | 1965-12-04 | Hunt et al.   |
|  | 49 | 3947656 | 1976-03-30 | Lodi          |

### Remarks

Note: Remarks are not for responding to an office action.

This IDS is part of a request for continued examination filed on September 29, 2003

### Signature

| Examiner Name | Date |
|---------------|------|
|               |      |